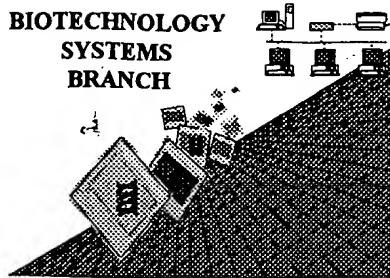


0590
3919



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/943,689

Source: O1PE

Date Processed by STIC: 9/20/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).

Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/943,689

DATE: 09/20/2001
TIME: 13:29:07

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\09202001\I943689.raw

pn 3-4
Does Not Comply
Corrected Diskette Needed

4 <110> APPLICANT: David Michalovich
5 Matthew Alan Sims
6 Narjis Shaikh
8 <120> TITLE OF INVENTION: NOVEL COMPOUNDS
11 <130> FILE REFERENCE: GP-30088-D1
13 <140> CURRENT APPLICATION NUMBER: US/09/943,689
14 <141> CURRENT FILING DATE: 2001-08-31
16 <150> PRIOR APPLICATION NUMBER: US 09/184,001
17 <151> PRIOR FILING DATE: 1998-11-02
19 <150> PRIOR APPLICATION NUMBER: UK 9806221.9
20 <151> PRIOR FILING DATE: 1998-03-23
22 <150> PRIOR APPLICATION NUMBER: UK 9817479.0
23 <151> PRIOR FILING DATE: 1998-08-11
25 <160> NUMBER OF SEQ ID NOS: 4
27 <170> SOFTWARE: FastSEQ for Windows Version 3.0
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 2186
31 <212> TYPE: DNA
32 <213> ORGANISM: HOMO SAPIENS
34 <400> SEQUENCE: 1
35 cttggcacga ggcctcggtgc caggcggtcat gaggcgccgc ggcccgaaaa gctgaggcg 60
36 ccggcgctg ccgcgggggc cgctcggtgc ctccatggag gccggagagg aaccgctgct 120
37 gctggccgaa ctcaagcccg ggcgcggccca ccagtttgcat tggaaagtccaa gctgtgaaac 180
38 ctggagcggtc gccttctccc cagatgggtc ctgggttgc tgggtctcaag gacactgcat 240
39 cgtcaaaactg atccccctggc ctgtggagga gcagttcatc cctaaagggt ttgaagccaa 300
40 aagccgaagt agcaaaaatg agacgaaagg gcggggcagc cccaaagaga agacgctgga 360
41 ctgtgggtcaag attgtctggg gcgtggcctt cagcccgtgg cttccccac ccagcaggaa 420
42 gctctggca cggccaccacc cccaaatgtcc cgtatgtctt tgcctggc ttgtacggg 480
43 actcaacatg gggcagatca agatctggg ggtgcagaca gggctctgc ttttgaatct 540
44 ttccggccac caagatgtcg tgagagatct gagcttcaca cccagtgca gtttgatttt 600
45 ggtctcccgcc tcacgggata agactcttcg catctggac ctgaaataaac acggtaaaca 660
46 gattcaagtgtt ttatcgggcc acctgcgtg ggtttactgc tggccatct ccccaactg 720
47 cagcatgtcg tgctctgcgt ctggagagaa gtcgtctt ctatggagca tgaggtccata 780
48 cacgttaatt cggaaatgtc agggccatca aagcagtgtt gtcttctgtg acttctcccc 840
49 cgactctgtcc ctgttgtca cggcttcttca cgataccat gtgattatgt gggaccctta 900
50 caccggcgaa aggctgaggt cactccacca caccagggtt gacccgcata tggatgacag 960
51 tgacgtccac attagctcac tgagatctgt gtgcctctt ccagaaggct tgtacccatgc 1020
52 cacgggtggca gatgacacac tcctcaggat ctggggccctg gaactgaaaa cttccattgc 1080
53 atttgcctt atgaccaatg ggcttgcgt cacatttttt ccacatgggt gagtcattgc 1140
54 cacagggaca agagatggcc acgtccaggat ctggacagct cctagggtcc tgcctctact 1200
55 gaagcactta tgccgaaag cccttcgaag tttcttaaca acttaccaag tccttagcact 1260
56 gccaatcccc aagaaaaatga aagagttcct cacatacagg acttttttaag caacaccaca 1320
57 ttttgcgtt ctgttgtca gggtaatcg tcctgtcaaa gggagttgtc ggaataatgg 1380
58 gccaaacatc tggcttgcata ttgaaatagc attttttgg gattgtgaat agaatgtac 1440
59 aaaaccatg tccagtgat tagtcatgaa tctttcttc cctggcatgt gaaagtca 1500
60 ctttagaggaa gagatccac ttgcacggca acagacgcctt acgttaaatt ttcagtccag 1560
61 ttatgaacag caagtgttgc acttttgc ctgtttga ttcaaagtgc agttactgtat 1620

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/943,689

DATE: 09/20/2001
TIME: 13:29:07

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\09202001\I943689.raw

62 gttgtttga ttatgcaact aagtaggcct ccagagcctc tctagtggca gagcagctca 1680
 63 cactccctcc gctggaaacg atggcttctg cctagtacct atccttgtgt ttctgtatgca 1740
 64 gtggtagcat tggtaaact tctctcctgc tgggtcaga gttgcttcga tgggtggccaa 1800
 65 gtgcctttct tcttgggctc ccttctgacc tgcaggacag ttttccttggca gccatttggt 1860
 66 atgaggtatt aatttagctt aactaaatta caggggactc agaggccgtc ctctgaccg 1920
 67 atccagacac tattactggc tttttttttt ttttttttaa caatgggtgtg catgtgcagg 1980
 68 aaatgacaaa tttgtatgtc agattataca aggatgtatt cttaaacgcg atgactattc 2040
 69 agatggctac tgagttatca gtggccattt attagcatca tatttatttg tattttctca 2100
 70 acagatgtta aggtacaact gtgttttctt cgattatcta aaaaccatag tacttaaatt 2160
 71 gaaaaaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaa 2186
 73 <210> SEQ ID NO: 2
 74 <211> LENGTH: 404
 75 <212> TYPE: PRT
 76 <213> ORGANISM: HOMO SAPIENS
 78 <400> SEQUENCE: 2
 79 Met Glu Ala Gly Glu Glu Pro Leu Leu Leu Ala Glu Leu Lys Pro Gly
 80 1 5 10 15
 81 Arg Pro His Gln Phe Asp Trp Lys Ser Ser Cys Glu Thr Trp Ser Val
 82 20 25 30
 83 Ala Phe Ser Pro Asp Gly Ser Trp Phe Ala Trp Ser Gln Gly His Cys
 84 35 40 45
 85 Ile Val Lys Leu Ile Pro Trp Pro Leu Glu Glu Gln Phe Ile Pro Lys
 86 50 55 60
 87 Gly Phe Glu Ala Lys Ser Arg Ser Ser Lys Asn Glu Thr Lys Gly Arg
 88 65 70 75 80
 89 Gly Ser Pro Lys Glu Lys Thr Leu Asp Cys Gly Gln Ile Val Trp Gly
 90 85 90 95
 91 Leu Ala Phe Ser Pro Trp Pro Ser Pro Pro Ser Arg Lys Leu Trp Ala
 92 100 105 110
 93 Arg His His Pro Gln Val Pro Asp Val Ser Cys Leu Val Leu Ala Thr
 94 115 120 125
 95 Gly Leu Asn Asp Gly Gln Ile Lys Ile Trp Glu Val Gln Thr Gly Leu
 96 130 135 140
 97 Leu Leu Leu Asn Leu Ser Gly His Gln Asp Val Val Arg Asp Leu Ser
 98 145 150 155 160
 99 Phe Thr Pro Ser Gly Ser Leu Ile Leu Val Ser Ala Ser Arg Asp Lys
 100 165 170 175
 101 Thr Leu Arg Ile Trp Asp Leu Asn Lys His Gly Lys Gln Ile Gln Val
 102 180 185 190
 103 Leu Ser Gly His Leu Gln Trp Val Tyr Cys Cys Ser Ile Ser Pro Asp
 104 195 200 205
 105 Cys Ser Met Leu Cys Ser Ala Ala Gly Glu Lys Ser Val Phe Leu Trp
 106 210 215 220
 107 Ser Met Arg Ser Tyr Thr Leu Ile Arg Lys Leu Glu Gly His Gln Ser
 108 225 230 235 240
 109 Ser Val Val Ser Cys Asp Phe Ser Pro Asp Ser Ala Leu Leu Val Thr
 110 245 250 255
 111 Ala Ser Tyr Asp Thr Asn Val Ile Met Trp Asp Pro Tyr Thr Gly Glu
 112 260 265 270

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/943,689

DATE: 09/20/2001
TIME: 13:29:07

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\09202001\I943689.raw

113 Arg Leu Arg Ser Leu His His Thr Gln Val Asp Pro Ala Met Asp Asp
114 275 280 285
115 Ser Asp Val His Ile Ser Ser Leu Arg Ser Val Cys Phe Ser Pro Glu
116 290 295 300
117 Gly Leu Tyr Leu Ala Thr Val Ala Asp Asp Arg Leu Leu Arg Ile Trp
118 305 310 315 320
119 Ala Leu Glu Leu Lys Thr Pro Ile Ala Phe Ala Pro Met Thr Asn Gly
120 325 330 335
121 Leu Cys Cys Thr Phe Phe Pro His Gly Gly Val Ile Ala Thr Gly Thr
122 340 345 350
123 Arg Asp Gly His Val Gln Phe Trp Thr Ala Pro Arg Val Leu Ser Ser
124 355 360 365
125 Leu Lys His Leu Cys Arg Lys Ala Leu Arg Ser Phe Leu Thr Thr Tyr
126 370 375 380
127 Gln Val Leu Ala Leu Pro Ile Pro Lys Lys Met Lys Glu Phe Leu Thr
128 385 390 395 400

129 Tyr Arg Thr Phe

132 <210> SEQ ID NO: 3

133 <211> LENGTH: 2558

134 <212> TYPE: DNA

135 <213> ORGANISM: HOMO SAPIENS

W--> 136 <220> FEATURE: ~~FEATURE~~ ^{do not insert an alphabetical heading on}
W--> 136 <220> FEATURE: ~~FEATURE~~ ^{do not insert an alphabetical heading on}
137 <221> NAME/KEY: UNSURE ^(2217, 2222, and 2237 are required for n's and x's)
138 <222> LOCATION: (146)(161)(178)(233)(254)(296) ^{2237 are required for n's and x's}
139 <223> OTHER INFORMATION: OTHER INFORMATION: Partial DNA sequence derived from EST
sequences. ^{and x's} ~~delete~~

141 <400> SEQUENCE: 3
142 gaaaggaacc gctgctgctg gccgaactca agccggcg ccccccaccag tttgatttggaa
143 agtccagctg taaaaacctgg agcgtcgct tctcccccaga tggctctgg tttgcttgggt
W--> 144 ctcaaggaca ctgcatcgctc aaactnatacc cctggccgtt ngaggagcag ttcatccnta
W--> 145 aagggtttga agccaaaagc cgaagttagca aaaatgagac gaaagggcgg ggnagtccaa
W--> 146 aagagaagac gctngactgt ggtcagattt gtcggggctt ggccttcagc ctgtgncttt
147 ccccacccag caaaaaatcc tgggcacggcc accacccca agtgcggat gtctttggcc
148 tggttcttgc tacgggactc cacgatgggc agatcaagat ctgggaggtg cagacagggc
149 tcctgtttttaatctttcc ggcaccaag atgtcgttag agatctgagc ttccacaccca
150 gtggcagttt gattttggc tccgcgtcac gggataagac tcttcgcatac tgggacactga
151 ataaaacacgg taaacacattt caagtgttat cggccaccc tgcgtgggtt tactgtgttt
152 ccatctcccc agactgcagc atgtgtgtct ctgcagctgg agagaagtcg gtctttctat
153 ggagcatgag gtcctacacg ttaattcgga agcttagaggg ccatcaaagc agtgggtgtct
154 cttgtgactt ctccccccgac tctggccctgc ttgtcactggc ttcttacat accaatgtga
155 ttatgtggga cccctacacc ggcgaaaggc tgaggtcaact ccaccacacc cagggttggacc
156 ccgcctatggc tgacagtgcac gtccacatca gtcactgag atctgtgtgc ttctctccag
157 aaggcttgcacg ctttgcacacg gtggcagatg acagactctt caggatctgg gcccggaaac
158 tggaaactcc cattgcattt gtcctatga ccaatggct ttgctgcaca tttttccac
159 atgggtggagt cattgccaca gggacaagag atggccacgt ccagttctgg acagctccta
160 ggggtcctgtc ctcactgaag cacttatgcc gggaaaggccct tgcggatttc ctaacaactt
161 accaaagtctt agcactgcac atccccaaaga aaatgaaaga gttcctcaca tacaggactt
162 tttaagcaac accacatctt gtgcttctt gtggcagggt aaatgtcct gtcaaaggaa
163 gttgctggaa taatggccaa aacatctggt cttgcattga aatagcattt ctttgggatt

The
clf
program
inserts
alphabetical
headings
for clarity.

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/943,689

DATE: 09/20/2001
TIME: 13:29:07

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\09202001\I943689.raw

164	gtgaatagaa	tgttagcaaaa	ccagattcca	gtgtactagt	catggatctt	tctctccctg	1380
165	gcatgtgaaa	gtcagtctta	gaggaagaga	ttccacttgc	acggcaacag	agccttacgt	1440
166	taaattttca	gtccagttat	gaacagacaag	tgttgaactc	tttctgttgc	ttttgattca	1500
167	aagtgcagtt	actgatgttgc	ttttgattat	gcaactaagt	aggcctccag	agcctctcta	1560
168	gtggcagagc	agctcacact	ccctccgctg	ggaacgatgg	cttctgccta	gtacctatcc	1620
169	ttgtgtttct	gatgcagtgg	tagcatgg	tcaagttctc	tcctgtgtg	gtcagagttg	1680
170	tttcgatgtt	ggccaagtgc	tttttcttgc	gggctccctt	ctgacctgca	ggacagtttt	1740
171	cctggagcca	tttggatgaa	ggtattaaatt	tagcttaact	aaattacagg	ggactcagag	1800
172	gccgtgcctc	tgaccgatcc	agacactatt	actggctttt	tttttttttt	tttaacaatg	1860
173	gtgtgcattgt	gcagggaaatg	acaaatttgc	atgtcagatt	atacaaggat	gtattctaa	1920
174	accgcatgac	tattcagatg	gctactgagt	tatcagtggc	catttattag	catcatattt	1980
175	atttgcattt	tctcaacaga	tgttaaggtt	caactgtgtt	tttctcgatt	atctaaaaac	2040
176	catagactt	aaattgaaca	gttgc当地	tgtcttaatt	gtgtaaagaa	ttgggtgttagt	2100
177	catgacttta	gctgataactc	ttatgtacga	gatctgtctc	tgctgtttaa	cttcatttgg	2160
178	ttaatcagct	ggtttcaact	ctactgc当地	acaaaaatag	ctccttaaaa	gtactgttct	2220
179	ccttcagtttgc	catgtatgtt	tctaatcaag	acacccattt	caaacaaaac	ctgcctttagg	2280
180	aaaatttaat	atattttaaa	ttattttaaa	agaaaatacaa	catcttattt	tttagctttc	2340
181	ttaatcgttgc	ctttatggag	gccagttgtt	cgttacatga	ctcggtt当地	aagttgagga	2400
182	atttcctcta	ccacctttgt	tgctt当地	aaaacatgtt	ttttcaaaat	gagaggcttt	2460
183	cattgaagaa	aagaaaaaaa	caacagttaa	aagctattgg	ctctctgttt	cattttttt	2520
184	cattaagaaa	aaaaaaagtc	cccttttaaa	acaagcag			2558

186 <210> SEQ ID NO: 4

187 <211> LENGTH: 400

188 <212> TYPE: PRT

189 <213> ORGANISM: HOMO SAPIENS

W--> 190 <220> FEATURE: ~~FEATURE~~

W--> 190 <220> FEATURE: ~~FEATURE~~

191 <221> NAME/KEY: UNSURE

192 <222> LOCATION: (53)(59)(98)

193 <223> OTHER INFORMATION: OTHER INFORMATION: Partial DNA sequence derived from EST sequences.

This is a peptide sequence

195 <400> SEQUENCE: 4

196	Lys	Glu	Pro	Leu	Leu	Leu	Ala	Glu	Leu	Lys	Pro	Gly	Arg	Pro	His	Gln
	1			5				10			15					

198	Phe	Asp	Trp	Lys	Ser	Ser	Cys	Glu	Thr	Trp	Ser	Val	Ala	Phe	Ser	Pro
				20				25			30					

200	Asp	Gly	Ser	Trp	Phe	Ala	Trp	Ser	Gln	Gly	His	Cys	Ile	Val	Lys	Leu
				35				40			45					

202	Ile	Pro	Trp	Pro	Xaa	Glu	Glu	Gln	Phe	Ile	Xaa	Lys	Gly	Phe	Glu	Ala
				50				55			60					

204	Lys	Ser	Arg	Ser	Ser	Lys	Asn	Glu	Thr	Lys	Gly	Arg	Gly	Ser	Pro	Lys
				65				70			75					80

206	Glu	Lys	Thr	Leu	Asp	Cys	Gly	Gln	Ile	Val	Trp	Gly	Leu	Ala	Phe	Ser
				85				90			95					

208	Ile	Xaa	Leu	Ser	Pro	Pro	Ser	Arg	Lys	Leu	Trp	Ala	Arg	His	His	Pro
				100				105			110					

210	Gln	Val	Pro	Asp	Val	Ser	Cys	Leu	Val	Leu	Ala	Thr	Gly	Leu	His	Asp
				115				120			125					

212	Gly	Gln	Ile	Lys	Ile	Trp	Glu	Val	Gln	Thr	Gly	Leu	Leu	Leu	Leu	Asn
				130				135			140					

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/943,689

DATE: 09/20/2001
TIME: 13:29:07

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\09202001\I943689.raw

214 Leu Ser Gly His Gln Asp Val Val Arg Asp Leu Ser Phe Thr Pro Ser
215 145 150 155 160
216 Gly Ser Leu Ile Leu Val Ser Ala Ser Arg Asp Lys Thr Leu Arg Ile
217 165 170 175
218 Trp Asp Leu Asn His Gly Lys Gln Ile Gln Val Leu Ser Gly His
219 180 185 190
220 Leu Gln Trp Val Tyr Cys Cys Ser Ile Ser Pro Asp Cys Ser Met Leu
221 195 200 205
222 Cys Ser Ala Ala Gly Glu Lys Ser Val Phe Leu Trp Ser Met Arg Ser
223 210 215 220
224 Tyr Thr Leu Ile Arg Lys Leu Glu Gly His Gln Ser Ser Val Val Ser
225 225 230 235 240
226 Cys Asp Phe Ser Pro Asp Ser Ala Leu Leu Val Thr Ala Ser Tyr Asp
227 245 250 255
228 Thr Asn Val Ile Met Trp Asp Pro Tyr Thr Gly Glu Arg Leu Arg Ser
229 260 265 270
230 Leu His His Thr Gln Val Asp Pro Ala Met Asp Asp Ser Asp Val His
231 275 280 285
232 Ile Ser Ser Leu Arg Ser Val Cys Phe Ser Pro Glu Gly Leu Tyr Leu
233 290 295 300
234 Ala Thr Val Ala Asp Asp Arg Leu Leu Arg Ile Trp Ala Leu Glu Leu
235 305 310 315 320
236 Lys Thr Pro Ile Ala Phe Ala Pro Met Thr Asn Gly Leu Cys Cys Thr
237 325 330 335
238 Phe Phe Pro His Gly Gly Val Ile Ala Thr Gly Thr Arg Asp Gly His
239 340 345 350
240 Val Gln Phe Trp Thr Ala Pro Arg Val Leu Ser Ser Leu Lys His Leu
241 355 360 365
242 Cys Arg Lys Ala Leu Arg Ser Phe Leu Thr Thr Tyr Gln Val Leu Ala
243 370 375 380
244 Leu Pro Ile Pro Lys Lys Met Lys Glu Phe Leu Thr Tyr Arg Thr Phe
245 385 390 395 400

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/943,689

DATE: 09/20/2001
TIME: 13:29:08

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\09202001\I943689.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:136 M:283 W: Missing Blank Line separator, <220> field identifier
L:136 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:190 M:283 W: Missing Blank Line separator, <220> field identifier
L:190 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4